AI Overview

The term **influence theorem** most commonly refers to the **Müller-Breslau principle** in structural engineering, but it can also apply to **Boolean function analysis (KKL theorem)** in mathematics or the **moral influence theory** in theology. Purdue University +2

Structural Engineering (Müller-Breslau Principle)

- Used to draw **qualitative influence lines** for reactions, shear, or bending moments in structures.
- States that the influence line for a specific function is proportional to the **deflected shape** of the structure.
- Formulated by removing the restraint corresponding to the function and applying a corresponding **unit displacement or rotation**. Wikipedia +1

For tips on how to draw and apply influence lines using the Müller-Breslau principle:

Muller-Breslau Principle for Influence Lines

40K views · 4 years ago

YouTube · Structures with Prof. H

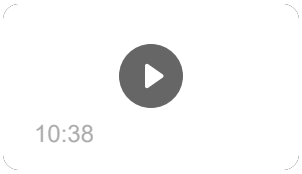
Mathematics (Analysis of Boolean Functions)

- Measures how much an **input variable** affects the output of a Boolean function.
- Quantified as the **probability** that flipping a specific bit changes the function's result.
- Tied to major theorems like the **Kahn-Kalai-Linial (KKL) theorem**, which proves that every Boolean function has at least one variable with a relatively high influence. arXiv +1

- A historic Christian Christianity view of the **atonement** regarding Jesus Christ.
- Teaches that Christ's death was a **demonstration of God's love** rather than a payment for a penalty.
- Designed to positively **transform human hearts and minds**, drawing people to God through love. W Wikipedia

If you meant a different context, please let me know whether you are looking into **structural analysis**, **combinatorics/math**, or **theology** so I can provide more targeted details.

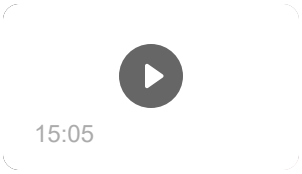
Ask anything



Influence Lines - Structural Analysis

YouTube · structurefree
Oct 18, 2012

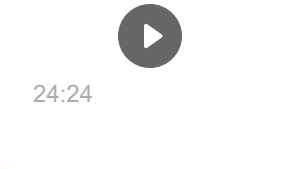
7 key moments in this video



Muller-Breslau Principle for Influence Lines - Intro to Structural ...

YouTube · Structures with Prof. H
Oct 28, 2021

Learn how the Muller-Breslau principle uses unit deformation to find **influence** lines for shear, moment, and reaction forces in structures.



Structural Theory | Influence Line of Beam Part 1 of 2

YouTube · the Engineer's Insight
Jan 17, 2021

6 key moments in this video

View all

Wikipedia
https://en.wikipedia.org › wiki › Influence_line

Influence line

An influence line **graphs the variation of a function** (such as the shear, moment etc. felt in a structural member) at a specific point on a beam or truss Read more

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https://www.cs.purdue.edu › teaching › lectures

Lecture 26: Influence and KKL Theorem

PDF

The **influence** of xi represents the probability (over random choice of all other variables) that f is sensitive to the value of xi
12 pages

Springer Nature Link
https://link.springer.com › Synthese

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arXiv
https://arxiv.org › abs › math

Influence and sharp-threshold theorems for monotonic ...

by BT Graham · 2005 · Cited by 78 — The **influence theorem** for product measures on the discrete space {0,1}^N may be extended to probability measures with the property of monotonicity. Read more

Boston University
https://cs-people.bu.edu › courses › notes › lec3

1 Influence

PDF

The i'th **influence** measures the fraction of dimension-i edges (i.e., edges of the form (x, x⊕i)) that are boundary edges. While we have defined **influences** ... Read more

5 pages

Engineering Skills
https://www.engineeringskills.com › posts › influence-lin...

Influence Lines - A Complete Introduction for Civil and ...

Nov 19, 2023 — An **influence** line is a graphical representation of the variation of some chosen action (reaction, shear, bending moment) which occurs in a structural element. Read more

Wikipedia
https://en.wikipedia.org › wiki › Three_degrees_of_infl...

Three degrees of influence

Three degrees of influence is a theory in the realm of social networks, basically that **peer effects need not stop at one degree of separation**.

SIAM Publications Library
https://epubs.siam.org › doi

KKL Theorem for the Influence of a Set of Variables

by T Przybyłowski · 2025 · Cited by 1 — **KKL Theorem for the Influence of a Set of Variables**. KN-type theorem for the multibit influences. The coalition influence of the variables. ...

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